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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/650,194	08/29/2000	Keith Henry Stockman Campbell	7681.0010-00	8594	
22852 7590 12/26/2007 FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER LLP 901 NEW YORK AVENUE, NW WASHINGTON, DC 20001-4413			EXAMINER		
			CROUCH, DEBORAH		
			ART UNIT	PAPER NUMBER	
Wishing	.,, 50 20001 1115		1632		
			MAIL DATE	DELIVERY MODE	
			12/26/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Supplemental							
Notice	of Allowab	ility					

Application No.	Applicant(s)
09/650,194	CAMPBELL ET AL.
Examiner	Art Unit
Deborah Crouch, Ph.D.	1632

would be a more about	Examin	ier	Art Unit	
	Debora	h Crouch, Ph.D.	1632	
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	OR REM or other a GHTS. T	IAINS) CLOSED in this app appropriate communication his application is subject to	lication. If not include will be mailed in due	ed course. THIS
1. 🔀 This communication is responsive to the interview summar	y of Dece	ember 6, 2007.		
2. 🔀 The allowed claim(s) is/are <u>19-50</u> .				
 3.				
2. Certified copies of the priority documents have			/803.165 .	
3. Copies of the certified copies of the priority do				tion from the
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			complying with the rec	quirements
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give				OTICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be subr	nitted.		
(a) \square including changes required by the Notice of Draftspers	on's Pate	nt Drawing Review (PTO-9	948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date				
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendr	nent / Comment or in the O	ffice action of	
Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in the				back) of
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I 				Note the
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Attachment(s)				
1. Notice of References Cited (PTO-892)	•	5. Notice of Informal Pa		
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		 Interview Summary (Paper No./Mail Date 		
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 		7. Examiner's Amendm		
Examiner's Comment Regarding Requirement for Deposit of Biological Material		8. Examiner's Statemen	nt of Reasons for Allo	wance
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			Deborah Crouch, F Primary Examiner Art Unit: 1632	νn.υ.

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An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Sal Arrigo on December 6, 2007.

- 1. Please rewrite claims 35, 39, 43 and 47 as follows:
 - 35. A method of cloning an ungulate by nuclear transfer comprising:
 - (i) inserting a nucleus of a cultured diploid ungulate fibroblast in the G1 phase of the cell cycle into an unactivated, enucleated metaphase II-arrested ungulate oocyte of the same species to reconstruct an embryo;
 - (ii) maintaining the reconstructed embryo without activation for a sufficient time to allow the reconstructed embryo to become capable of developing to term;
 - (iii) activating the resultant reconstructed embryo;
 - (iv) culturing said activated, reconstructed embryo to blastocyst; and
 - (v) transferring said cultured, reconstructed embryo to a host ungulate of the same species such that the reconstructed embryo develops to term.
 - 39. A method of cloning an ungulate fetus by nuclear transfer comprising:
 - (i) inserting a nucleus of a cultured diploid ungulate fibroblast in the G1 phase of the cell cycle into an unactivated, enucleated metaphase II-arrested ungulate oocyte of the same species to reconstruct an embryo;
 - (ii) maintaining the reconstructed embryo without activation for a sufficient time to allow the reconstructed embryo to become capable of developing to term;
 - (iii) activating the resultant reconstructed embryo;
 - (iv) culturing said activated, reconstructed embryo to blastocyst; and

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(v) transferring said cultured, reconstructed embryo to a host ungulate of the same species such that the reconstructed embryo develops into a fetus.

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- 43. A method of cloning an ungulate by nuclear transfer comprising:
- (i) inserting a nucleus of a cultured diploid ungulate differentiated cell in the G1 phase of the cell cycle into an unactivated, enucleated metaphase II-arrested ungulate oocyte of the same species to reconstruct an embryo;
- (ii) maintaining the reconstructed embryo without activation for a sufficient time to allow the reconstructed embryo to become capable of developing to term;
 - (iii) activating the resultant reconstructed embryo;
- (iv) culturing said activated, reconstructed embryo to blastocyst; and transferring said cultured, reconstructed embryo to a host ungulate of the same species such that the reconstructed embryo develops to term.
 - 47. A method of cloning an ungulate fetus by nuclear transfer comprising:
- (i) inserting a nucleus of a cultured diploid ungulate differentiated cell in the G1 phase of the cell cycle into an unactivated, enucleated metaphase II-arrested ungulate oocyte of the same species to reconstruct an embryo;
- (ii) maintaining the reconstructed embryo without activation for a sufficient time to allow the reconstructed embryo to become capable of developing to term;
 - (iii) activating the resultant reconstructed embryo;
 - (iv) culturing said activated, reconstructed embryo to blastocyst; and
- (v) transferring said cultured, reconstructed embryo to a host ungulate of the same species such that the reconstructed embryo develops into a fetus.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deborah Crouch, Ph.D. whose telephone number is 571-272-0727. The examiner can normally be reached on M-Fri, 6:00 AM to 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Paras can be reached on 571-272-4517. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Deborah Crouch, Ph.D. Primary Examiner

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December 21, 2007